PATENT COOPERATION TREATY RECEIVED

- 4 JAN 2005

From the INTERNATIONAL SEARCHING AUTHORITY

MARKS AND CLERK

| To: MARKS & CLERK Attn. Harding, Richard P. 4220 Nash Court Oxford Business Park South Oxford, Oxfordshire OX4 2RU UNITED KINGDOM | NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Date of mailing (day/month/year) 29/12/2004 |
| Applicant's or agent's file reference | |
| RPH.P52772WO | FOR FURTHER ACTION See paragraphs 1 and 4 below |
| International application No. PCT/GB2004/002668 | International filing date (day/month/year) 21/06/2004 |
| | , |
| Applicant WEATHERFORD/LAMB, INC. | 14 AP + H 4F - 1 |
| Authority have been established and are transmitted herewit Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is norr International Search Report; however, for more Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Fa For more detailed instructions, see the notes on the accordance of the international search Article 17(2)(a) to that effect and the written opinion of the In With regard to the protest against payment of (an) addition the protest together with the decision thereon has been applicant's request to forward the texts of both the protent no decision has been made yet on the protest; the app | as of the International Application (see Rule 46): mally 2 months from the date of transmittal of the details, see the notes on the accompanying sheet. chemin des Colombettes scimile No.: (41-22) 740.14.35 mpanying sheet. report will be established and that the declaration under ternational Searching Authority are transmitted herewith. nal fee(s) under Rule 40.2, the applicant is notified that: In transmitted to the International Bureau together with the est and the decision thereon to the designated Offices. |
| 4. Reminders Shortly after the expiration of 18 months from the priority date, the International Bureau. If the applicant wishes to avoid or postpone application, or of the priority claim, must reach the International Bubefore the completion of the technical preparations for internation. The applicant may submit comments on an informal basis on the International Bureau. The International Bureau will send a copy of international preliminary examination report has been or is to be enthe public but not before the expiration of 30 months from the priority date, but only in respect of some examination must be filed if the applicant wishes to postpone the date (in some Offices even later); otherwise, the applicant must, wasts for entry into the national phase before those designated Offices in respect of other designated Offices, the time limit of 30 months months. See the Annex to Form PCT/IB/301 and, for details about the application. | publication, a notice of withdrawal of the international treau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, all publication. written opinion of the International Searching Authority to the such comments to all designated Offices unless an stablished. These comments would also be made available to rity date. The designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority within 20 months from the priority date, perform the prescribed ces. To constant the constant is filed within 19 |
| Name and mailing address of the International Sourching Authority | Authorized officer |

European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, _ Fax: (+31-70) 340-3016

Christine Voigt

(See notes on accompanying sheet)

Form PCT/ISA/220 (January 2004)

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER | see Form PCT/ISA/220 |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------|
| RPH.P52772WO | ACTION as we | ll as, where applicable, item 5 below. |
| International application No. | International filing date (day/month/year) | (Earliest) Priority Date (day/month/year) |
| PCT/GB2004/002668 | 21/06/2004 | 21/06/2003 |
| Applicant | | |
| WEATHERFORD/LAMB, INC. | | |
| This International Search Report has been according to Article 18. A copy is being tra | n prepared by this International Searching Autl nsmitted to the International Bureau. | nority and is transmitted to the applicant |
| This International Search Report consists | of a total of 6 sheets. | |
| • | a copy of each prior art document cited in this | report. |
| Basis of the report | | |
| a. With regard to the language, the i | nternational search was carried out on the bases otherwise indicated under this item. | sis of the international application in the |
| The international this Authority (Rul | | ation of the international application furnished to |
| b. With regard to any nucleo | tide and/or amino acid sequence disclosed | in the international application, see Box No. I. |
| 2. Certain claims were four | nd unsearchable (See Box II). | |
| 3. X Unity of invention is lack | king (see Box III). | |
| 4. With regard to the title, | | · |
| X the text is approved as sul | omitted by the applicant. | |
| the text has been establish | ned by this Authority to read as follows: | |
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| 5. With regard to the abstract, | amitted by the applicant | |
| the text is approved as sufficient the text has been established. | omitted by the applicant. ned, according to Rule 38.2(b), by this Authorit | v as it appears in Box No. IV. The applicant |
| may, within one month fro | m the date of mailing of this international search | h report, submit comments to this Authority. |
| 6. With regards to the drawings, | | |
| a. the figure of the drawings to be po | ublished with the abstract is Figure No. $\underline{31}$ | A |
| as suggested by t | ne applicant. | |
| | s Authority, because the applicant failed to sug | - I |
| | s Authority, because this figure better characte | rizes the invention. |
| b. none of the figures is to be | e published with the abstract. | |

International application No.

INTERNATIONAL SEARCH REPORT

PCT/GB2004/002668

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A downhole electric motor for a submersible pump has at least three phases and comprises a permanent magnet rotor and a stator bearing phase windings (A, B and C) in slots in the stator. Each phase winding (A, B, C) incorporates a coil extending through a respective pair of adjacent stator slots and surrounds a respective portion of the stator between the slots. Furthermore adjacent coils of each pair of phase windings (A, B, C) extend through opposite parts of a respective one of the slots, so that these coils extend alongside one another in the slot, either being separated by a gap through which cooling fluid may be pumped to cool the coils, or being separated by a thermally conductive projection, with which the coils are in thermal contact, extending at least part of the way across the slot. Such a winding arrangement is advantageous in ensuring that the motor has a long life.

International application No. PCT/GB2004/002668

INTERNATIONAL SEARCH REPORT

| Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: |
| 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: |
| 2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: |
| 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). |
| Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) |
| This International Searching Authority found multiple inventions in this international application, as follows: |
| see additional sheet |
| As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims. |
| 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. |
| 3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.: |
| 4. X No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-5 |
| Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees. |

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5

A downhole electric motor having a permanent magnet rotor and a stator with windings in closed slots. The windings are cooled in the slots.

2. claims: 6-12,13-20

A downhole electric motor having a stator being made up of first and second concentric parts which together define the slots in the stator so as to permit the phase windings to be fitted to the first part prior to fitting of the second part to enclose the phase windings within the slots.

3. claims: 21-23

A downhole electric motor having two multiple-phase sections being supplied with electrical power from the surface by separate supply leads.

4. claims: 24,25

A method of constructing the phase coils of a downhole electric motor.

5. claim: 26

A permanent magnet motor having permanent magnets provided with an anti-corrosion coating.

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/002668

| IPC 7 | ification of subject matter H02K5/132 H02K9/19 F04D13/ | 10 | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| According | o International Patent Classification (IPC) or to both national classifica | ation and IPC | |
| | SEARCHED | ation and if C | · · · · · · · · · · · · · · · · · · · |
| | ocumentation searched (classification system followed by classification | on symbols) | |
| Documenta | tion searched other than minimum documentation to the extent that so | uch documents are included in the fields se | arched |
| Electronic o | ata base consulted during the international search (name of data bas | se and, where practical, search terms used | |
| EPO-In | ternal | | |
| C. DOCUM | ENTS CONSIDERED TO BE RELEVANT | | |
| Category ° | Citation of document, with indication, where appropriate, of the rele | evant passages | Relevant to claim No. |
| Υ | US 6 388 353 B1 (LIU JOSEPH C ET 14 May 2002 (2002-05-14) cited in the application column 3, line 60 - column 4, lin | | 1-5 |
| Υ | EP 1 102 383 A (NISSAN MOTOR) 23 May 2001 (2001-05-23) column 3, line 1 - line 45 | | 1,2,4,5 |
| Υ | DE 28 26 607 A (BBC BROWN BOVERI 29 November 1979 (1979-11-29) page 5, line 17 - page 6, line 2 | & CIE) | 3 |
| A | EP 0 342 554 A (MAGNET MOTOR GMBH 23 November 1989 (1989-11-23) column 3, line 52 - column 4, lin | | 1-5 |
| | | | |
| Furth | er documents are listed in the continuation of box C. | X Patent family members are listed in | annex. |
| "A" docume | regories of cited documents : Int defining the general state of the art which is not ered to be of particular relevance | T" later document published after the inter or priority date and not in conflict with the cited to understand the principle or the | ne application but |
| | ocument but published on or after the international | invention X" document of particular relevance; the cla cannot be considered novel or cannot to | |
| which i citation | or other special reason (as specified) int referring to an oral disclosure, use, exhibition or | involve an inventive step when the doc Y" document of particular relevance; the cla cannot be considered to involve an involution document is combined with one or mor ments, such combination being obvious | aimed invention entive step when the e other such docu- |
| "P" docume | nt published prior to the international filing date but | in the art. &" document member of the same patent fa | 1, C= 1 |
| | October 2004 | Date of mailing of the international search 2 9. 12. | 1 |
| | nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | Authorized officer Frapporti, M | |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2004/002668

| Patent document cited in search report | | Publication date | | Patent family member(s) | Publication date |
|-------------------------------------------|----|------------------|----------------------------|------------------------------------------------------------------|--------------------------------------------------------------------|
| US 6388353 | B1 | 14-05-2002 | NONE | | |
| EP 1102383 | А | 23-05-2001 | JP EP US | 2001145302 A 1102383 A2 6515384 B1 | 25-05-2001 23-05-2001 04-02-2003 |
| DE 2826607 | A | 29-11-1979 | CH DE DE | 627885 A5 2826607 A1 7818185 U1 | 29-01-1982 29-11-1979 21-02-1980 |
| EP 0342554 | A | 23-11-1989 | DE AT DE EP ZA | 3816652 A1 147904 T 58909764 D1 0342554 A1 8903510 A | 30-11-1989 15-02-1997 27-02-1997 23-11-1989 28-02-1990 |